

Significant Figures – Another Worksheet Answers

1. Give the number of significant figures in each of the following.

- a) 10.0005 g 6
- b) 0.003423 mm 4
- c) 2900 ± 100 ft 2
- d) 8.9×10^5 L 2

2. Determine the answer for each of the following. Be sure to use the correct number of significant figures.

- a) 47.36
- b) -1.960
- c) 5.6×10^2
- d) 5×10^3

3. Round each of the following to 3 significant figures.

708 2.30×10^3

0.000335 10.3

1.90×10^{22}

4. Convert each of the following into correct scientific notation.

1.747×10^3

9.84×10^{-6}

3.2000×10^5

2.014×10^{-1}

2.56×10^{16}

5. Calculate the following using the correct number of significant figures.

- a) 3.26×10^{47}
- b) 7.5×10^3

6. Calculate the following using the correct number of significant figures.

a) 5.4×10^{118}

b) 9.5×10^{10}

7.

a) 8.1×10^5

b) 6.34×10^{-4}

c) 6×10^7

8.

a) 4

b) 5

c) 3

9.

a) 90.0g

b) 1.68 km

c) 128.6 kg

10. a) $2.151 \times 10^4 \text{ m}^2$

b) $1.4 \times 10^{-7} \text{ km}^2$

c) $2.4 \times 10^8 \text{ cm}^2$